COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS AASHTO T 22

APPARATUS

	Testing machine has a verification of calibration within the last 12 months						
L]	Protective Cage					
P	ROC	CEDURE SULFUR MORTAR CAPS					
[]	Diameter of test specimen determined to nearest 0.01 in. by averaging two diameters measured at right angles to each other at mid-height of specimen (shall not differ by more than 2%)					
[]	Length of test specimen determined to nearest 0.05 x diameter when length to diameter ratio is less than 1.8 or more than 2.2					
[]	Test specimens kept moist during the period between removal from moist storage and testing					
[]	Lower bearing block placed, with hardened face up, on the table or platen of testing machine directly under the upper bearing block					
[]	Faces of both bearing blocks and test specimen wiped clean, and test specimen placed or the lower bearing block					
]	Load indicator set to zero. If indicator is not properly set to zero, indicator is adjusted. As spherically-seated block is brought to bear on the specimen, movable portion of block is rotated gently by hand so that uniform seating is obtained.					
[]	Load applied continuously and without shock					
[]	For screw-type testing machines, the moving head is traveling at a rate of approximately 0.05 in./min when machine is running idle					
[]	For hydraulically-operated testing machines, load applied at a rate of movement corresponding to a loading rate on the test specimen within a range of 20 to 50 psi/s					
[]	Rate of movement maintained at least during the latter half of anticipated loading phase of testing cycle					
[]	No adjustment in rate of movement of platen made at any time while specimen is yielding rapidly immediately before failure					
[]	Load applied until test specimen fails					
]	Maximum load carried by test specimen during test recorded. Type of failure and appearance of concrete noted.					
[]	Compressive strength of test specimen determined to nearest 10 psi as follows:					
		Compressive Strength = Maximum Load Average Cross - Sectional Area					

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[]	Compressive strength corrected when specimen length-to-diameter ratio is less than 1.8 by multiplying by a correction factor as follows:							
	L/D: Factor: (Values not gi	1.75 0.98 iven in table ar	1.50 0.96 re determined b	1.25 0.93 y interpolation)	1.00 0.87			
PROCEDURE NEOPRENE CAPS								
[] [] [] []	Extrusion controllers, containing neoprene caps, placed on the top and bottom surfaces of test specimen Axis of test specimen aligned with center of upper bearing block No loose particles trapped between test specimen and neoprene caps or between the bearing surfaces of extrusion controllers and bearing blocks Same surface of neoprene cap used for all tests with that cap Each neoprene cap used to test no more than 100 cylinders Procedure for testing same as procedure for testing cylinders with sulfur mortar caps except as noted within this section Concrete cylinder ends have no depressions deeper than 0.12 in. 6 in. diameter cylinders do not differ in height by 0.2 in. for any two measurements							
Acceptance Technician								
INDO	T			Date				
Comments								